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RCA-01/0038/69

Basic Imagery Interpretation Report

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BALTA MRBM REAR DEPOT
 BERDICEV IRBM REAR DEPOT
 BOBROVSKIY ICBM/IRBM/MRBM REAR DEPOT
 GLAZOV ICBM/IRBM/MRBM REAR DEPOT
 NOVAYA MEZINOVKA IRBM REAR DEPOT
 SUROVATIKHA ICBM/IRBM/MRBM REAR DEPOT
 TAMBOV IRBM REAR DEPOT
 TOROPETS MISSILE SUPPORT FACILITY

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DEPLOYED STRATEGIC SSM FACILITIES**USSR****AUGUST 1969**

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INSTALLATION OR ACTIVITY NAME			COUNTRY		
See below			UR		

UTM COORDINATES NA	GEOGRAPHIC COORDINATES See below	CATEGORY See below	BE NUMBER See below	COMIREX NO. See below	NIETB NO. See below
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MAP REFERENCE

See below

LATEST IMAGERY USED [redacted]	NEGATION DATE (if required) NA
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Installation	Geo Coords	Category	BE Number	COMIREX No	NIETB No
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Balta MRBM	47-50-52N
Rear Depot	029-53-50E
Berdichev IRBM	49-56-34N
Rear Depot	028-17-59E
Bobrovskiy	56-40-41N
ICBM/IRBM/MRBM	061-04-49E
Rear Depot	
Glazov	57-51-36N
ICBM/IRBM/MRBM	053-16-35E
Rear Depot	
Novaya Mezinovka	53-30-47N
IRBM Rear Depot	026-55-25E
Surovatikha	55-43-06N
ICBM/IRBM/MRBM	043-52-32E
Rear Depot	
Tambov IRBM	52-27-36N
Rear Depot	041-27-50E
Toropets Missile Support Facility	56-21-39N
	031-38-40E

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Map References

SAC. USATC, Series 200, Sheet M0250-2HL, 4th ed, Mar 67, scale 1:200,000 (SECRET)

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SAC. USATC, Series 200, Sheet M0233-12HL, 3d ed, Aug 65, scale 1:200,000 (SECRET)

SAC. USATC, Series 200, Sheet M0156-23HL, 4th ed, Nov 66, scale 1:200,000 (SECRET)

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SAC. USATC, Series 200, Sheet M0166-3HL, 4th ed, May 66, scale 1:200,000 (SECRET)

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ACIC. USATC, Series 200, Sheet M0153-25HL, 4th ed, May 67, scale 1:200,000 (SECRET)

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ABSTRACT

The eight missile support facilities-Balta, Berdichev, Bobrovskiy, Glazov, Novaya Mezinovka, Surovatikha, Tambov, and Toropets--have remained basically unchanged in layout since [redacted] although there has been some increase in the housing facilities since that time. No significant change has been observed in the amount of missile support equipment at each facility, but an increased level of building construction is evident. The recent observation of missiles and missile components at several of the facilities indicates that these facilities provide storage and possible assembly of missiles in addition to maintenance and storage of missile-associated equipment. Analysis of equipment present at these facilities reveals that four of them support MRBM and IRBM systems and three support ICBM as well as MRBM and IRBM systems; the type of system served by the remaining facility has not been determined. A complex rail system for the handling of materials and equipment is observed at each of the facilities.

This report consolidates and updates information on the eight missile support facilities. It includes a description and an annotated photograph of each facility and a table of data on the structures in each facility. Information in the report is current through [redacted] photography of [redacted]

INTRODUCTION

The eight missile support facilities are all in the European USSR: four are to the west of Moscow, in or near the belt of MRBM and IRBM sites in the western USSR, and four are east and southeast of Moscow (Figure 1).

Each installation is situated on or adjacent to a major rail line and each is served by good roads. All of the facilities are located in forested areas, and trees left standing in each facility provide some concealment at ground level. There are SAM sites in the vicinity of each of the facilities. As many as five SAM sites are near the Surovatikha facility, and at least 26 SAM sites are within 25 nautical miles (nm) of the eight facilities.

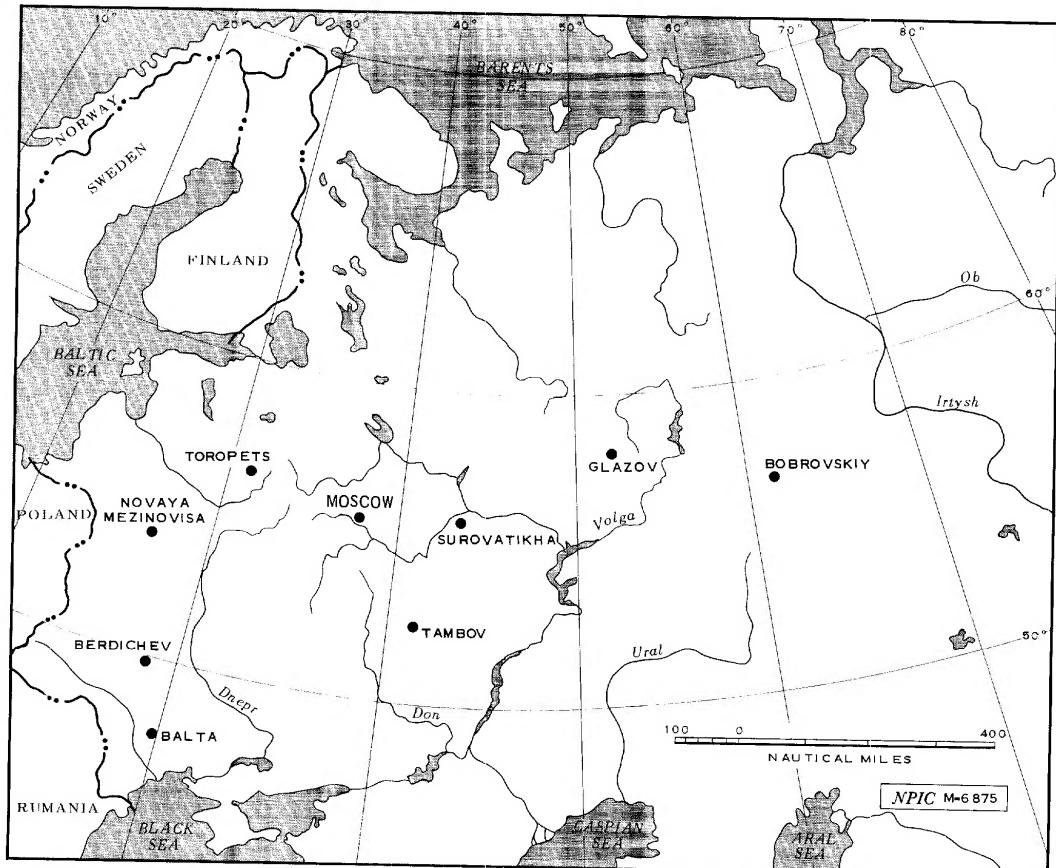


FIGURE 1. LOCATION OF MISSILE SUPPORT FACILITIES, USSR

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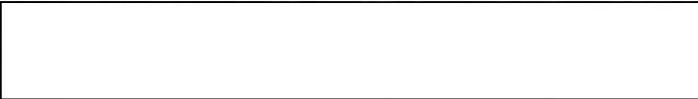
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The use of sentry dogs for patrols is indicated by the appearance of dog kennels at seven of the facilities.



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BASIC DESCRIPTION

Two of the eight missile support facilities, Bobrovskiy and Novaya Mezinovka, were first observed in [] on overhead reconnaissance photography. By [] the other six facilities were observed, and all eight facilities appeared to be functionally complete by []. A number of new buildings have been constructed at the facilities since [] and some buildings are still under construction. At the Tambov facility, new rail lines have been added since [].

Function

Seven of the eight missile support facilities serve MRBM and IRBM systems, and of these three also serve ICBM systems. The type of system served by the remaining facility has not been determined. The presence of MRBM and IRBM equipment has been confirmed at the Balta, Berdichev, Novaya Mezinovka, and Tambov facilities. At the Bobrovskiy, Glazov, and Surovatikha facilities, all east of Moscow, ICBM support equipment has been observed in addition to limited amounts of MRBM- and IRBM-associated equipment. At the Toropets facility, although linear tapered objects, possibly missiles, have been observed on occasion, no missile equipment has been positively identified. However, the layout, type of buildings, and apparent mode of operation at Toropets indicate that it performs the same type of function as the other seven missile support facilities.

The recent observation of missiles and missile components at several of the facilities indicates that the function of the facilities includes the storage and possible assembly of missiles as well as the maintenance and storage of missile-associated equipment. Two probable SS-5 missiles were identified at Tambov in [] a large number of SS-6 components were observed at Glazov in [] and a SAVAGE three-stage missile was observed at Bobrovskiy also in [].

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A large number of vehicles and pieces of equipment, including missile transporters, propellant transporters, missile erectors, and prime movers, have been observed in open storage at all the facilities except Toropets. No significant or rapid change in the amount of this equipment has been observed in the past four years, although there was a considerable reduction in the number of support vehicles at Novaya Mezinovka between [] and a reduction in the number of missile transporters occurred at the Tambov facility between [].

The lack of a significant or rapid change in the amount of equipment suggests that it is the function of the facilities to provide more or less permanent storage for missile support equipment. The reported lack of communications activity involving these facilities during Soviet Rocket Forces General Staff Command exercises indicates that the facilities are not in the operational chain of command and therefore are not called upon for quick reaction support to deployed launch complexes.¹ No external communications system has been observed at any of the eight facilities.

Physical Features

All of the missile support facilities have a similar general design, but the rail pattern varies. Each facility has two main areas: a rail-served storage and maintenance area and a housing and support area.

Storage and Maintenance Area

The storage and maintenance area at each facility contains a storage area, consisting of a series of rail- or road-served drive-in or drive-through buildings, some of which are revetted; a repair or maintenance area with large, high-bay drive-through buildings; a vehicle storage area containing large, low-pitched gable-roofed buildings; and a rail distribution system. All of the facilities except Bobrovskiy also have a transshipment area containing two buildings identical in size and apparent operation. Each facility has at least one large, high-bay drive-through building probably used for repairing or refurbishing large vehicles.

At the Bobrovskiy, Glazov, and Surovatikha facilities, the storage and maintenance area appears to have a more definite pattern than at the other five facilities. At these three facilities, the storage and maintenance area consists of three parts: a vehicle storage area, a revetted building area, and an area containing buildings with a short projection or L-shaped entrance and served by a rail-trench system.

This rail-trench system is a transloading system unique to six of the missile support facilities. The system consists of a main rail spur which intersects a central rail trench at right angles, with a large bridge crane at the intersection capable of transferring heavy or bulky material. The crane transfers the material from the rail car to a dolly on a tracked turntable in the rail trench. From the trench the dolly rolls onto a narrow-gauge tracks leading into one of the rail-in storage buildings situated on each side of the rail trench.

At the other two facilities, Berdichev and Toropets, the rail line forms a loop, passing between the rows of rail-in buildings, permitting the unloading of material directly onto narrow-gauge rail dollies which go into the buildings.

The arrangement and revetting of some of the rail-in buildings suggest the presence of sensitive or potentially hazardous materials. At six of the facilities, two buildings at the end of the central rail trench are revetted, separately secured, and screened from ground observation.

The Bobrovskiy and Surovatikha facilities each have a number of storage buildings which differ from those at the other missile support facilities. At the Borovskiy facility, some rail-in buildings are surrounded by blast walls and resemble the storage buildings observed at solid fuel testing facilities. The Surovatikha facility has rail-served side-loading buildings also enclosed by blast walls.

Housing and Support Area

The housing and support area at each facility is adjacent to the storage and maintenance area and is a self-sufficient community with family housing, commissaries, troop quarters, schools, heatplants, motor pools, administration buildings, and recreational facilities. In each facility is a military area which contains buildings associated with facility administration, operations and control, and troop support.

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Table 1. Data on Missile Support Facilities and

Missile Support Facility	First Observed Date & Status	Elevation	Military District
Balta		600 ft	Odessa
Berdichev		800 ft	Carpathian
Bobrovskiy		900 ft	Urals
Glazov		550 ft	Urals
Novaya Mezinovka		600 ft	Belorussia
Surovatikha		600 ft	Moscow
Tambov		500 ft	Voronezh
Toropets		600 ft	Moscow

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The housing and support area at each of the facilities has remained basically unchanged since it was first observed. However, an increase in troop strength since [] is indicated by the construction of a total of at least 19 apartment-type family quarters containing at least 1,048 family units at seven of the facilities. At Berdichev and Bobrovskiy the number of housing units has almost doubled. It is also observed that civilian houses at several facilities have been converted to military use. The number of personnel stationed at these facilities cannot be determined precisely because of the difficulty in differentiating between troop housing and workers housing; however, it is estimated that the number of family housing units in apartment-type buildings at the eight facilities is in excess of 4,500.

Balta Missile Support Facility

The Balta Missile Support Facility (Figure 2) is approximately 12 nm east-southeast of Balta, on the Kotovsk-Pervomaysk rail line. It is 20 nm southeast of the Balta MRBM Complex and 40 nm west of the Pervomaysk IRBM Complex. Two SAM sites are approximately 14 nm from the Balta facility, one south and the other southwest of the facility. Other military installations in the area include the Balta and the Kotovsk Army Barracks, the Kotovsk SSM Training Facility, and the Kotovsk SAM Support Facility.

The Balta facility was first observed in [] when four large apartment-type buildings were under construction in the housing area. A rail-to-road transfer point, first observed under construction in [] appeared to be complete in []. Since [] several buildings have been constructed, including a high-bay drive-through probable maintenance and repair building in the storage area and an apartment-type building in the housing area. Immediately south of the housing area are two possible additional apartment-type buildings which were first observed under construction in [] and appeared to be complete by [].

Information on this facility is based primarily on photography of [] the best available at the time of this report.

The multiple-fenced storage and maintenance area contains 53 large buildings, of which 12 appear to be for vehicle storage and maintenance and 32 appear to be for the storage of possibly hazardous or sensitive materials. Two transshipment buildings, common to all the facilities except Bobrovskiy, are situated on the rail line just inside the western perimeter of the secured area. A gantry crane extending from one end of each transshipment building spans a rail spur which branches from the main rail line.

In the center of the storage and maintenance area are two rows of 28 rail-in storage buildings (item 9) served by a dual track in the central north-south rail trench, which intersects the main east-west rail line. A large bridge crane at the intersection is used to transfer cargo from the rail cars on the main rail line to probable dollies on tracked turntables in the rail trench. The rail-in storage buildings are approximately [] long by [] wide and are about 350 feet apart. Each has three narrow-gauge rail entrances approximately 15 feet wide. At the southern end of the rail trench are two revetted, separately secured buildings, similar to those observed at five other support facilities. Immediately east of the separately secured buildings is a large mobile gantry crane which spans a small three-track holding yard, which probably serves an adjacent vehicle storage and maintenance area containing 11 buildings. A four-track holding yard is observed in the northern part of the storage area. In the southwest part of the area is a large high-bay building, probably used for maintenance or refurbishing of missile support vehicles.

A considerable amount of MRBM and IRBM support equipment and a large number of rail cars have been observed consistently at this facility. In [] at least 88 rail cars were observed. No major change in the amount or type of equipment has been observed.

The housing and support area, immediately west-southwest of the storage area, is a self-sufficient community of more than 75 buildings, including an estimated 300 apartment-type family units, barracks, a gymnasium, a community center, a fire station, a school, and a heatplant. There has been relatively little change in the housing and support area since [].

Data on Structures in the Balta Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Storage and Maintenance Area					
1	Stor bldg	[]	11	Revetted stor bldg	[]
2	Vehicle stor bldg	[]	12	Stor bldg	[]
3	Vehicle stor bldg	[]	13	Vehicle stor bldg	[]
4	Vehicle stor bldg	[]	14	Stor bldg (2)	[]
5	Vehicle stor bldg	[]	15	Vehicle stor bldg	[]
6	Vehicle stor bldg (6)	[]	16	Stor bldg	[]
7	Vehicle stor bldg (2)	[]	17	Transloading bldg	[]
8	Revetted stor bldg (2)	[]	18	Maint & assembly bldg	[]
9	Stor bldg (28)	[]	19	Bridge crane	[]
10	Transloading bldg	[]			

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Item Description Dimensions (ft)

Housing and Support Area		
1	Vehicle stor bldg	[]
2	Stor bldg	[]
3	Rail- & road-through transloading bldg	[]
4	Warehouse	[]
5	Stor bldg	[]
6	Stor tank	[]
7	2 stor tanks	[]
8	Rail-in stor bldg	[]
9	Heatplant	[]
10	Stor bldg	[]
11	Maint bldg	[]
a		[]
b		[]
12	Admin bldg (3)	[]
13	Vehicle stor bldg	[]
14	Stor bldg	[]
15	Stor bldg	[]
16	Stor bldg	[]
17	Food stor bldg	[]
18	Prob messhall	[]
a		[]
b		[]
19	Fire station	[]
a		[]
b		[]
20	2-story bldg	[]
a		[]
b		[]
21	Bldg	[]
22	Bldg	[]
23	Recreation facility	[]
a		[]
b		[]
24	2-story apartment bldg (5)	[]
25	2-story bldg	[]
26	2-story bldg	[]
27	2-story bldg (2)	[]
28	School	[]
a		[]
b		[]
29	Bldg	[]
30	Stor bldg	[]
31	Stor bldg	[]
32	2-story apartment bldg (4)	[]
33	4-story apartment bldg (4)	[]
34	2-story apartment bldg	[]
35	3-story barracks	[]
36	2-story bldg	[]
37	Soccer field	[]

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Berdichev Missile Support Facility

The Berdichev Missile Support Facility (Figure 3) is 11.5 nm west-northwest of Berdichev and 1.5 nm south of the Berdichev-Shepetovka rail line. This facility is situated in a region dominated by military installations. In addition to four SAM sites within 25 nm, there are two ammunition depots [redacted] two SAM support facilities, and at least eight army barracks or headquarters facilities within 50 nm. Within 100 nm are eight MRBM launch complexes consisting of 22 permanent launch positions and one IRBM complex with three launch positions.

The Berdichev facility was first observed in [redacted]. In the housing area, four new two-story multifamily apartment buildings have been constructed since [redacted] and an additional multistory barracks was observed completed in [redacted]. In the northern part of the storage area, a large low-pitched gable-roofed structure was constructed during [redacted]. A probable sewage disposal plant, started in [redacted], was still under construction in [redacted].

The heavily secured storage and maintenance area contains 105 large buildings, of which 74 appear to be for storage and 13 appear to be for vehicle repair or storage. Seven of the 74 storage buildings are revetted. There are two transshipment buildings, each with a gantry crane spanning one of the rail spurs which branch from the main line just inside the southwest corner of the facility.

At this facility, as at Toropets, the rail line forms a loop, so rail cars can be channeled directly into the central rail trench. At the northwest end of the rail trench are two separately secured, revetted buildings. Also at the northwest end of the rail trench, one rail line branches to form a loop, passing through a large T-shaped high-bay building (item 19) which is probably used in the preparation of materials for rail shipment. Southwest of the T-shaped building are two other high-bay buildings, one with a gantry crane at both entrances, which are probably used in the repair or refurbishing of large vehicles. A short rail spur inside the vertex of the wye at the southeast end of the rail trench apparently is a parking area for a railroad crane which is probably used to transfer materials from the rail trench to adjacent storage buildings.

A small rail-to-road transfer point with an overhead crane is in the southwest corner of the storage and maintenance area. In [redacted] [redacted] A road connects the transfer point with five revetted buildings along the south and southeast perimeter of the storage area.

A large amount of equipment for the SS-3, SS-4, and SS-5 missile systems has been observed in open storage since the facility was first observed on high-resolution photography in [redacted]. No significant change in the amount or type of equipment has been observed.

The housing and support area, just west of the storage and maintenance area, has more than 110 buildings, including barracks, family housing units, a gymnasium, a commissary, a community center, a fire station, schools including a nursery school, and a heatplant. Outdoor recreational facilities include a soccer field, basketball and volleyball courts, jumping pits, and a skeet range. The amount of family housing has almost doubled since [redacted] and now consists of approximately 625 family apartment units.

Data on Structures in the Berdichev Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Storage and Maintenance Area					
1	Revetted stor bldg (2)	175 x 50	14	Support bldg	80 x 60
2	Revetted stor bldg (4)	160 x 55	15	Bunkered stor bldg (2)	55 x 65
3	Transloading bldg	100 x 90	16	Vehicle stor bldg (17)	140 x 45
4	Transloading bldg	140 x 90	17	Revetted stor bldg (2)	160 x 40
5	Stor bldg (2)	135 x 55	18	Vehicle stor bldg	215 x 60
6	Equipment stor bldg (10)		19	Rail-served maint & assembly bldg	
a		160 x 40	a		120 x 45
b		40 x 35	b		120 x 30
7	Stor bldg	160 x 50	c		135 x 55
8	Equipment stor bldg (16)	160 x 40	20	Admin bldg	110 x 45
9	Stor bldg (5)	240 x 60	21	Maint & assembly bldg	
10	Stor bldg (13)	160 x 55	a		240 x 70
11	Vehicle stor bldg (10)	165 x 60	b		240 x 30
12	Vehicle stor bldg	85 x 55	22	Maint & assembly bldg	200 x 90
13	Support bldg	70 x 40			

Housing and Support Area

Item	Description	Dimensions (ft)
Housing and Support Area		
1	Sentry dog kennels	--
2	Prob sewage plant	--
3	Vehicle main & stor shed	160 x 70
4	Vehicle main & stor shed	165 x 45
5	3-story barracks	130 x 50
6	Poss barracks	130 x 60
7	Poss recreation hall	140 x 55
8	Messhall	140 x 60
9	Warehouse	105 x 50
10	Fire station	65 x 40
11	Heatplant	
a		65 x 20
b		30 x 10
12	3-story admin bldg	115 x 45
13	Recreation facility	
a		85 x 55
b		75 x 60
14	2-story multifamily apartment bldg (7)	120 x 45
15	2-story multifamily apartment bldg (4)	135 x 55
16	2-story multifamily apartment bldg	145 x 45
17	2-story admin bldg	120 x 45
18	4-story apartment bldg	225 x 45
19	Temporary barracks-like structure (4)	145 x 40
20	Admin bldg	130 x 45
21	Heatplant	
a		80 x 30
b		45 x 20
22	Transformer bldg	--
23	Secondary school	
a		175 x 40
b		95 x 30
c		105 x 60
24	Kindergarten & nursery school	110 x 45
25	Prob store	165 x 45
26	4-story apartment bldg (5)	170 x 40
27	4-story apartment bldg (2)	150 x 45
28	Washing & stor shed (3)	145 x 20
29	Stor shed	100 x 35
30	Transformer bldg	15 x 10
31	Skeet range	--
32	Single-family dwellings (27)	35 x 15
33	Vehicle shed	140 x 35
34	Soccer field	--
35	Warehouse	260 x 25
36	Warehouse	125 x 30
37	Warehouse	100 x 45
38	Warehouse	75 x 20
39	Railroad maint shop	120 x 50
40	Road- & rail-through transloading bldg	120 x 60
41	Post office bldg	55 x 40

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Bobrovskiy Missile Support Facility

The Bobrovskiy Missile Support Facility (Figure 4), one of four east of Moscow, is 16 km west of Sverdlovsk on the main rail line between Sverdlovsk and Kamenec-Uralskiy. A number of military installations are within 20 km of this facility, including four SAM sites, the Bazhenovo Ammunition Depot, the Sverdlovsk-Koltsovo Airfield, and four army installations.

The facility was first observed in [redacted] when it was next observed on photography, it was still in an early stage of construction. In [redacted] five large rail-in buildings, each [redacted] were observed in an early stage of construction in the northern part of the storage area, and by [redacted] they were almost completed. An additional large rail-in building in this area was completed in [redacted]. These large rail-in buildings are 2 stories, resemble those found at solid fuel test installations. Immediately west of the rail-in buildings are four reveted buildings, constructed during the same time period. Since [redacted] six low-pitched gable-roofed buildings (Items 17 and 18) and a rail-in building (Item 19) have been observed under construction in the eastern part of the storage area.

Within the multiple-fenced storage and maintenance area, a considerable amount of ICBM support equipment has been observed recently.

The ICBM equipment observed is probably for use at the three ICBM complexes situated within 100 km of the Bobrovskiy facility. The only known operational complex for the solid-fuelled ICBM is at Yoskar-Ola, 500 km to the west. The nearest IRBM launch complex is at Atyrbinsk, approximately 450 km southwest of Bobrovskiy.

This installation differs in several respects from the other seven missile support facilities. The type of rail-in buildings in the northern part of the storage area and their arrangement are different from those at the other facilities. Also, this facility does not have the large trapezoidal rail-in buildings or the small rectangular rail-in facilities. In common with the other support facilities, however, are the heavily fenced storage and maintenance areas, the rail transfer system, and the housing and support areas.

The storage and maintenance area contains 50 large buildings, of which 38 have L-shaped entrances such as those observed at the Glazov and Survatikha facilities. The main rail line enters the southwest corner of the storage and maintenance area and separates into several spurs before branching into a five-track holding yard. A rail spur under construction will serve the new building also under construction in the eastern part of the area. Another rail spur extends northward under construction in a four-track holding yard, and from the north end of this yard a spur extends eastward to serve a two-bay rail-in building. This spur, while not a rail-in building, appears to be a place to change rail cars direct into the central rail trench, a feature similar to that observed at the Novaya Molniovka installation. A large bridge crane at the intersection of the main rail line and the central rail trench also provides for transferring materials to the rail-in buildings along the trench. A large high-bay building at the end of the northwest rail spur appears to be for the repair or refurbishing of large vehicles. A similar rail-served building is observed in the south-central part of the storage and maintenance area.

A well-developed rail-to-road POL transfer point at the southeastern edge of the facility is similar to one observed at the Droyanaya ICBM Complex support facilities.

The equipment observed at the Bobrovskiy facility is associated primarily with the SS-7, SS-8, and SS-11 ICBM systems. The amount of equipment appears to have increased slightly since [redacted] but the interpretability of the photography precludes its identification.

The housing and support area is the largest observed at any of the eight installations. Since [redacted] a number of buildings have been constructed, including apartment-type buildings, two schools, and a large civic center. Six of the apartment-type buildings, started in [redacted] have five stories each and contain a total of approximately 440 apartment-type quarters. There is a total of 14 four- and five-story modern apartments, four two-story apartments, and four small dormitory-type units within the housing area. The large apartment buildings are designed to house an estimated 800 families. The small dormitory-type units contain approximately 400 rooms with common kitchens. It is estimated that at least 1,200 families could be housed in the housing area.

Data on Structures in the Bobrovskiy Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
<i>Housing and Support Area</i>					
1	Vehicle shed		55	Elementary school	
2	Vehicle shed		a		
3	Vehicle shed		b		
4	Vehicle shed		c		
5	Vehicle shed		56	Kindergarten & nursery school	
6	2 buried tanks		Kindergartens & nursery school		
7	Water tower		Gymnasium		
8	Shed		250 ft long		
9	Garage		Vehicle maint bldg		
10	Headquarters bldg		Mobile maint		
11	Bunker		4-story apartment bldg (3)		
12	Shed		3-story store		
13	Shed		Washing & stor shed (3)		
14	Shed		3-story small-family housing unit		
15	Stor bldg		2-story bldg		
16	Shed		Messhall		
17	Bldg		Bldg		
18	Shed		2-story bldg		
19	Bldg		2-story bldg		
20	Shed		2-story bldg		
21	Warehouse		2-story bldg		
22	Shed		Vehicle shed		
23	Shed		3-story bldg		
24	Shed		Fire station		
25	Stor bldg				
26	Shed				
27	Shed				
28	Substation				
29	Substation				
a					
b					
c					
d					
e					
30	5-story apartment bldg (2)		2-story bldg		
31	5-story apartment bldg (4)		Service dog kennels		
32	5-story small-family housing unit		Maint bldg under construction		
33	Stor bldg		Support bldg		
34	Shed		Security bldg		
35	Stor bldg		Office		
36	Stor bldg		Support bldg		
37	Admin bldg		Prob casting bldg		
38	Admin bldg		Support bldg		
39	Stor bldg		Workshop		
40	Stor bldg		Stor bldg		
41	Stor bldg		Stor bldg		
42	Bldg		Warehouse		
43	Stor bldg		Batch plant		
44	9-story bldg				
45	9-story bldg				
46	3-story apartment bldg (6)				
47	9-story apartment bldg				
a					
b					
48	9-story store				
49	4-story small-family apartment bldg (2)				
50	Civic center				
a					
b					
c					
d					
51	Bldg		4 buried tanks		
52	Bldg		Railroad maint shop		
53	Vehicle maint bldg				
54	Vehicle stor bldg				
90	Sawmill				
91	Stor bldg				
92	Stor bldg				
93	Heatplant				

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Glazov Missile Support Facility

The Glazov Missile Support Facility (Figure 5), 25 nm southeast of Glazov, is situated on the Trans-Siberian Railroad and is linked by a primary road to a major highway. Two SA-2 SAM sites are within 25 nm of the facility, and the Perm and Yurya ICBM Complexes are within 100 nm of the facility.

The facility was first observed in [redacted] and it was operational at that time, although a few buildings and annexes were not completed until [redacted]. At that time, the foundation for a large building was observed in the southern part of the storage and maintenance area.

High-resolution photography has revealed the presence of ICBM missile components and ICBM missile stage transporters in open storage at this facility. None of the equipment can be identified specifically with the MRBM or IRBM systems; propellant transporters similar to those observed at the facility are used for both ICBM and MRBM/IRBM systems. The Glazov facility is conveniently located for handling ICBM equipment. It is situated on the Trans-Siberian Railroad, in the midst of a belt of ICBM complexes, and near the Perm, Yurya, and Yoskob-Ols ICBM Complexes. The nearest IRBM complex is 500 nm and the nearest MRBM complex is 750 nm from the facility.

The Glazov facility has a more organized layout than the other missile support facilities. It consists of a storage and maintenance area and a housing and support area, each with several functional subdivisions.

The multiple-fenced storage and maintenance area includes a missile components storage yard, a missile support equipment storage area, a maintenance and repair area, an area of construction, and two open storage areas. In the storage and maintenance area, the main rail spur branches into a six-track classification yard, which is served by two rail-through transhipment buildings. A rail wye extending from the classification yard intersects standard-gauge dual tracks which pass between the rail-in storage buildings, and a double overhead bridge crane is observed at the intersection. A narrow-gauge track extending at right angles from the dual tracks serves a number of maintenance and repair buildings west of the tracks.

The missile components storage area consists of 30 rail-in missile components storage buildings which form a ladder pattern on the two sides of the central dual tracks. Each rail-in building is served by three narrow-gauge tracks.

SS-4 and SS-7 components have been observed in a rail-served walled-in area between two of the storage buildings (Items 7 and 8). SS-7 components have been observed in an area of rail-served missile-ready tents between two other storage buildings.

The missile support equipment storage area has 15 driven-in storage buildings, eight drive-in storage buildings, and a high-bay maintenance and repair area, all served by a concrete apron system. The maintenance and repair area has several high-bay maintenance and repair buildings, including three rail-in buildings.

An area of construction in the southern part of the storage and maintenance area contains a large, multilevel, rail-through probable repair and maintenance building in a late stage of construction (Item 18), which is similar to a building (Item 1, Figure 6) at the Novaya Mezynovka facility. The area of construction also contains a four-track storage yard and a foundation for a large building. The foundation has been observed for two years and no construction or renovation activity has been observed. Construction activity possibly is due to a delayed need for their functions. Most of the southern section is undeveloped, although it is within the elaborate security perimeter. It is possible that this section was intended to accommodate future systems, and the present slow construction activity may be the beginning of an expansion throughout this area.

There are two open storage areas. One is south of the missile support equipment storage area and is for the storage of SS-6 booster components. The other is near the classification yard and is for the storage of SS-7 stage transporters.

The northern part of the facility contains a rail yard, a utility barracks and administration area, a motor pool and maintenance area, an underground POL storage area and refueling point, a heatplant and utilities area, an additional heatplant, a water pumping and storage area, and a concrete batching and prefabrication area. An estimated 835 family-type apartment units are in the housing area.

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Data on Structures in the Glazov Missile Support Facility		
Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	3-story admin bldg	
2	Vehicle maint bldg	
3	Vehicle stor bldg (1)	
4	Maint & assembly bldg	
a		
b		
c		
5	Maint & assembly bldg (3)	
a		
b		
c		
6	Maint & assembly bldg	
a		
b		
c		
7	Stor bldg (28)	
a		
b		
c		
8	Stor bldg	
9	Stor bldg (10)	
a		
b		
10	Bldg (2)	
11	Transloading bldg	
12	Transloading bldg	
13	Transloading bldg	
14	Bldg	
15	Maint & assembly bldg	
a		
b		
c	(2)	
16	Vehicle stor bldg (8)	
17	Vehicle stor bldg (15)	
18	Maint bldg	
a		
b		
19	Stor bldg (7)	
20	Bridge crane	
21	Security bldg (3)	

Data on Structures in the Glazov Missile Support Facility					
Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and support area					
1	Substation		37	Prob meschall!	
2	Sawmill & lumber yard		38	3-story bldg	
3	4-story pres-technical school		39	3-story bldg	
4	School		a		
5	Washing & stor shed (4)		b		
6	4-story apartment bldg (10)		c		
7	Prob stock (2)		d		
8	4-story apartment bldg (2)		e		
9	Small family apartment		f		
10	5-story apartment bldg (2)		g		
11	Athletic field		h		
12	Heatplant		i		
a			j		
b			k		
c			l		
d			m		
e			n		
f			o		
g			p		
h			q		
i			r		
j			s		
k			t		
l			u		
m			v		
n			w		
o			x		
p			y		
q			z		
r			aa		
s			bb		
t			cc		
u			dd		
v			ee		
w			ff		
x			gg		
y			hh		
z			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			nn		
ff			oo		
gg			pp		
hh			qq		
ii			rr		
jj			ss		
kk			tt		
ll			uu		
mm			vv		
nn			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
zz			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
zz			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
zz			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
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yy			hh		
zz			ii		
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ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
zz			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
zz			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
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bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
pp			yy		
qq			zz		
rr			aa		
ss			bb		
tt			cc		
uu			dd		
vv			ee		
ww			ff		
xx			gg		
yy			hh		
zz			ii		
aa			jj		
bb			kk		
cc			ll		
dd			mm		
ee			oo		
ff			pp		
gg			qq		
hh			rr		
ii			ss		
jj			tt		
kk			uu		
ll			vv		
mm			ww		
oo			xx		
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qq			zz		
rr			aa		
ss			bb		

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Novaya Mezinovka Missile Support Facility

The Novaya Mezinovka Missile Support Facility (Figure 6) is in the midst of the belt of MRBM and IRBM complexes in the western USSR and is on the Minsk-Baranovichi rail line. It is 43 km southwest of Minsk and 50 km northeast of Baranovichi. Ten MRBM complexes consisting of 23 permanent launch sites and one IRBM complex with three sites are within 100 m of the facility. Two SAM sites are within 20 m of the facility. A SAM support facility, 1 nm north of the Novaya Mezinovka facility, appears to be a fenced housing and administration site at the north edge of the missile support facility housing area.

The Novaya Mezinovka facility was first observed in [] and the rail-to-road transfer point was first identified in []. The facility has remained relatively unchanged since [] aside from the completion of two large apartment-type buildings and a rail repair shop.

A large amount of MRBM and IRBM support equipment has been observed consistently at the facility and the movement of a number of vehicles has been observed on several occasions. In [] at least 200 vehicles, including probable warhead vans, support vans, and probable generators, were observed at the rail-to-road transfer point. These vehicles were previously in the storage and maintenance area and their removal from that area began in []. The vehicles were no longer observed at the facility. In [] 40 SS-3 transporters were observed for the first time in one of the open storage areas.

The storage and maintenance area, secured by multiple fencing and patrols, contains at least 75 buildings, of which 45 are for equipment storage. At least 12 of the buildings appear to be for vehicle storage, three for vehicle repair or refurbishing, and two are the transshipment buildings common to six other missile support facilities. Ten of the storage buildings at the southern end of the rail trench, are of similar size and have the same L-shaped entrances as those observed at the Bobrovskiy, Glazov, and Surovatikha facilities.

The rail system employs a large bridge crane for transferring material from the incoming rail spur to the rail trench. In addition, a rail spur branches from the four-track holding yard along the south perimeter of the storage area and joins the track in the rail trench, permitting rail cars to go directly into the rail trench.

A rail-to-road transfer point with two end-loading platforms and a gantry crane is at the eastern end of the holding yard. A rail spur, branching from the main rail line as it enters the western perimeter of the facility, serves four widely spaced, side-loading, revetted buildings along the western perimeter. A parallel spur serves three similar buildings immediately east of these revetted buildings.

A number of rail cars tapered at one end are observed throughout the facility. Two rail cars with extensions at both ends, each carrying a tapered object 80 feet long and [] in diameter, were observed along the eastern edge of the storage and maintenance

The storage area contains two large high-bay buildings (items 3 and 6) for vehicle repair and refurbishing. One of these buildings is at the north end of the rail trench and is served by three narrow-gauge tracks. The narrow-gauge tracks at the eastern entrance to the building form a loop and then enter a nearby two-story storage building. A short rail spur from the main rail line serves a small side-loading dock adjoining one of the large high-bay buildings (item 8). To the east is the second high-bay building (item 3), which has gantry cranes at the front and rear entrances. A third high-bay building (item 9), observed immediately east of the bridge crane in the center of the storage area, is a

Data on Structures in the Novaya Mezinovka Missile Support Facility

Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Rail-served transloading bldg	
a		
b		
2	Vehicle stor bldg (5)	
3	Maint & assembly bldg	
a		
b		
c		
4	Vehicle stor bldg (5)	
5	Warehouse	
6	Maint & assembly bldg	
a		
b		
7	Stor bldg (90)	
8	Stor bldg (8)	
9	Stor bldg	
a		
b		
10	Revetted stor bldg (2)	
11	Stor bldg (10)	
a	Entrance	
12	Transloading bldg	
a		
13	Stor bldg	
14	Transloading bldg	
15	Transloading bldg	
16	Stor shed	
17	Vehicle stor bldg (3)	
18	Warehouse (3)	
19	Train shed	
20	Warehouse (2)	
21	Revetted stor bldg (4)	

Data on Structures in the Novaya Mezinovka Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
22	Washing & stor shed		22	Railroad maint shop	
23	Washing & stor shed		23	Warehouse	
24	4-story apartment bldg (11)		24	Pots messhall	
25	Washing & stor shed		25	a	
26	Store		b		
27	Field house		26	Office bldg	
28			27	Stor bldg	
29			28	Bldg	
30	(2)		29	Mill (5)	
31	Elementary school		30	Duplex apartment bldg	
32			31	Single-family housing unit (7)	
33			32	Duplex apartment bldg (8)	
34			33	5-story apartment bldg (2)	
35			34	6-story apartment bldg	
36			35	5-story apartment bldg	
37			36	5-story apartment bldg (4)	
38			37	9-story prob barracks	
39			38	4-story admin bldg	
40			39	Sawmill	
41			40	Heapsaint	
42			41	Bldg	
43			42	Stor bldg	
44			43	Bldg	
45			44	Stor bldg	
46			45	Bldg	
47			46	4-story admin bldg	
48			47	Sawmill	
49			48	Heapsaint	
50			49	Bldg	
51			50	Stor bldg	
52			51	Bldg	
53			52	Bldg	
54			53	Stor shed	
55			54	Stor bldg	
56			55	Stor shed	
57			a		
58			b		
59			c		
60			d		
61			e		
62			f		
63			g		
64			h		
65			i		
66			j		
67			k		
68			l		
69			m		
70			n		
71			o		
72			p		
73			q		
74			r		
75			s		
76			t		
77			u		
78			v		
79			w		
80			x		
81			y		

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[REDACTED]
 rail-through building probably used in the preparation of special materials either entering or leaving the storage buildings along the rail trench.

The housing and support area contains at least 80 buildings. With the exception of the construction of two 32-unit apartment buildings, no major changes have been observed in the area since [REDACTED]. An estimated 700 apartment-type family units are present in this area.

25X1

Surovotikha Missile Support Facility

The Surovotikha Missile Support Facility (Figure 7), on the Gorkiy-Azamas rail line, is 46 km south of Gorkiy and 18 km north of Azamas. A SAM support facility is 1.2 km north of the Surovotikha facility, and five SAM sites are within 20 nm of the missile support facility.

The Surovotikha facility was first observed in [REDACTED] and in [REDACTED]. In a new rail-to-road transfer point was observed on the western edge of the facility. In [REDACTED] six large new buildings were identified in the storage and maintenance area.

In the housing and support area, 12 buildings, including a large vehicle repair shed, a probable school, and a large apartment-type building with approximately 64 units, have been completed since [REDACTED]. A total of 400 family housing units have been identified in the housing area.

Support equipment associated with the SS-4, SS-5, SS-7, and SS-9 missile systems has been identified at this facility on high-resolution photography since [REDACTED]. It is assumed that the SS-7 and SS-9 equipment furnishes support to the four ICBM complexes within 300 nm of the facility.

The secured storage and maintenance area, which contains at least 90 buildings, has three functional areas: a vehicle storage area with 36 buildings, a rail-served area with eight side-loading reverted buildings, and an area of 31 buildings with L-shaped entrances (item 4) served by the rail-trench system. The buildings with L-shaped entrances are similar to those observed at the Bobrovskiy and Glazov facilities. There are two high-bay buildings, one near the bridge crane at the intersection of the rail-trench system and the other in the vehicle storage area.

Two transshipment buildings are situated on the main rail spur just after it enters the secured storage area. The two transshipment buildings at this facility differ slightly from those observed at six of the support facilities: they do not have external gantry cranes spanning the rail spur; instead, each building extends over one of the rail spurs and it is assumed that a gantry crane is in each building to perform the loading or unloading function.

The transloading system at this facility consists of a rail-trench system, with a bridge crane for transferring materials. The facility also has a candelabra rail arrangement serving eight side-loading reverted storage buildings (item 30). [REDACTED]

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Data on Structures in the Surovotikha Missile Support Facility

Data on Structures in the Surovotikha Missile Support Facility

Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Substation	1
2	Vehicle stor bldg	2
3	Vehicle stor bldg	3
4	Stor bldg (28)	4
a		5
b		6
c		7
(3)		8
Bridge crane		9
Stor bldg (4)		10
Side stor bldg (1)		11
Vehicle stor bldg (3)		12
Transloading bldg		13
Vehicle stor bldg (2)		14
Vehicle stor bldg (9)		15
Vehicle stor bldg (12)		16
Stor bldg (3)		17
Warehouse		18
Reverted stor bldg		19
a		20
b		21
c		22
Vehicle stor bldg (15)		23
Reverted stor bldg		24
Reverted stor bldg		25
Warehouse		26
Stor bldg		27
Rail & rail-through transloading bldg		28
Office bldg		29
Warehouse		30
Vehicle stor bldg		31
Reverted stor bldg (6)		
Special operations shelter		

Data on Structures in the Surovotikha Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	2-story bldg	27	Temporary barracks-type bldg		25X1
2	Railroad maint bldg	28	Fire station		25X1
3	Shed	29	Bldg		25X1
4	2-story bldg	30	2-story apartment bldg (2)		25X1
5	Rail stor bldg	31	First stor bldg		25X1
6	Loading platform	32	Bldg		25X1
a		33	2-story apartment bldg		25X1
b		34	Apartment bldg		25X1
c		35	2-story apartment bldg (10)		25X1
(2)		36	Bldg		25X1
Bridge crane		a			
Stor bldg (4)		b			
Side stor bldg (1)		(2)			
Vehicle stor bldg (3)		37	Bldg		25X1
Transloading bldg		38	Bldg		25X1
Vehicle stor bldg (2)		a			
Vehicle stor bldg (9)		b			
Vehicle stor bldg (12)		(2)			
Stor bldg (3)		39	Bldg		25X1
Warehouse		40	Bldg		25X1
Reverted stor bldg		a			
Maint & assembly bldg		b			
a		c			
b		d			
c		e			
(2)		f			
Vehicle stor bldg		41	Bldg		25X1
Warehouse		42	2-story admin bldg (2)		25X1
Reverted stor bldg		43	2-story bldg		25X1
Maint & assembly bldg		44	Pres kindergartens & nursery school		25X1
a		45	Bldg under construction		25X1
b		46	Apartment bldg (3)		25X1
c		47	Pres kindergartens & nursery school		25X1
(2)		48	Shed		25X1
Vehicle stor bldg (15)		a			
Reverted stor bldg		b			
Reverted stor bldg		c			
Warehouse		d			
Stor bldg		e			
Rail & rail-through transloading bldg		f			
Office bldg		49	Shed		25X1
Warehouse		50	2-story apartment bldg (8)		25X1
Vehicle stor bldg		51	4-story apartment bldg (2)		25X1
Reverted stor bldg (6)		52	Shed (2)		25X1
Special operations shelter		53	2-story apartment bldg		25X1
		54	Ice rink		25X1
		55	Elementary school		25X1
		a			
		b			
		c			
		d			
		e			
		f			
		56	Soccer field		25X1
		57	Shed		25X1

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Tambov Missile Support Facility

The Tambov Missile Support Facility (Figure 8) is 15 nm south of Tambov and 1 nm west of the Tambov-Saratov rail line. There are four SAM sites within 15 nm of the facility and a SAM support facility is 2 nm south of the Tambov facility.

The missile support facility is approximately 210 nm south-southeast of Moscow. Although it is approximately 400 nm east of the belt of MRBM and IRBM complexes in the western USSR, two missiles and a considerable amount of MRBM and IRBM support equipment have been identified on high-resolution photography since [REDACTED].

It is possible that this facility is a depot and repair center for equipment for the three IRBM launch complexes with seven launch sites and the three MRBM launch complexes with seven launch sites in the Caucasus Mountains and the south-central USSR.

The multiple-fenced storage area contains at least 68 large buildings, of which 56 are probably storage buildings. Of these, ten are probably for vehicle storage and two are probably for missile storage or assembly. Two large high-bay buildings appear to be for the maintenance and repair of large vehicles. Two transhipment buildings, each with a gantry crane extending over one rail spur, are situated on the main rail spur just inside the storage area. At the north end of the rail spur is a separately secured area containing three buildings, two of which are surrounded by blast walls.

A number of changes have occurred in the storage and maintenance area since [REDACTED]. [REDACTED] has large low-pitched gable-roofed buildings have been constructed at the southwest end of the rail trench. A new rail spur entering the south perimeter of the storage area was observed in [REDACTED].

The main rail line enters the southeast corner of the storage area and separates into four tracks, two of which are spanned by gantry cranes extending from the two transhipment buildings. A spur branches from the main line just inside the storage area and extends northeast to serve three widely separated, side-loading, revetted storage buildings and an open storage area. The main rail spur intersects a two-track rail trench, and a bridge crane is at the intersection to transfer material destined for the rail-in storage buildings along the rail trench.

[REDACTED] A considerable amount of support equipment for the SS-3, SS-4, and SS-5 systems has been observed at this facility on high-resolution photography. [REDACTED] At least 60 SS-2 missile transporters observed in [REDACTED] were not present in [REDACTED]. Between [REDACTED] at least 40 SS-3, SS-4, and SS-5 missile transporters were removed from the open storage areas.

Changes in the housing and support area since [REDACTED] indicate an increase in personnel at the facility; three three-story apartment buildings have been completed, and an additional [REDACTED]

[REDACTED] The completion of this structure will bring the number of family housing units present to approximately 400. Between [REDACTED] seven POL tanks were installed in the vicinity of the heatplant and a new wing and stack were added to the heatplant.

Data on Structures in the Tambov Missile Support Facility

Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Stor bldg (6)	
2	Stor bldg (2)	
3	Stor bldg (1)	
4	Stor bldg (6)	
5	Maint & assembly bldg	
a		
b		
c		
6	Stor bldg	
7	Bldg	
8	Stor bldg (10)	
9	Shed over rail trench	
10	Vehicle stor bldg	
11	Vehicle stor bldg	
12	Bldg	
13	Vehicle stor bldg (3)	
14	Vehicle stor bldg (5)	
15	Drive-through bldg	
16	Bldg	
17	Stor bldg (2)	
18	Bldg	
a		
b		
c		
19	Prob office bldg	
20	Transloading bldg	
21	Transloading bldg	
22	Vehicle stor bldg (4)	
23	Maint & assembly bldg	
a		
b		
c		
24	Riveted stor bldg (3)	
25	Shed	
26	Rail-served bldg	
a		
b		
c		
27	Road- and rail-through transloading bldg	
28	Bridge crane	

Data on Structures in the Tambov Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	3-story apartment bldg		38	Bldg	
2	3-story apartment bldg (2)		39	Warehouse	
3	Washing & stor shed		40	Warehouse	
4	Washing & stor shed		41	Bldg	
5	Washing & stor shed		42	Heatplant	
6	Washing & stor shed (4)		a		
7	Sentry dog kennels		b		
8	Washing & stor shed		43	3 stor tanks	
9	3-story apartment bldg (4)		44	Security bldg	
10	2-story apartment bldg (4)		45	2-story barracks	
11	Bldg		46	Messhall	
12	Pumphouse		a		
13	Sentry dog kennels		b		
14	Vehicle stor shed		47	Apartment bldg	
15	Field house		48	Recreation bldg	
16	Maint bldg		a		
17	Bldg		b		
18	Vehicle stor shed		c		
19	Warehouses		51	Star shed	
20	Vehicle stor shed		52	Star shed	
21	Warehouses		53	Star shed	
22	Prob kbn		54	1400 cu ft tanks	
23	Sawmill		55	Bldg	
24	Bldg		56	2-story barracks	
a			57	Temporary barracks (4)	
b		(2)	58	Bldg	
c			59	Bldg	
25	Bldg		60	Bldg (2)	
a			61	Ampitheater	
b			62	Temporary barracks (3)	
c			63	Bldg	
26	Storage		64	Shed	
27	Bldg		65	Bldg	
28	Bldg		a		
29	Bldg		b		
30	Bldg		c		
31	2-story apartment bldg (5)		66	Shed	
a			67	Shed	
b			68	Shed	
c			69	Elementary school	
32	Duplex apartment bldg (8)		d		
33	Railroad maint shop		e		
34	3-story bldg		f		
35	Bldg		g		
36	Post admin bldg		h		
37	Bldg		i		
			70	Batch plant	

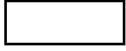
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Tambov Missile Support Facility

The Tambov Missile Support Facility (Figure 8) is 15 nm south of Tambov and 1 nm west of the Tambov-Saratov rail line. There are four SAM sites within 15 nm of the facility and SAM support areas 2 nm to the east of the facility.

The missile support facility is approximately 210 nm south-southeast of Moscow. Although it is approximately 400 nm east of the belt of MRBM and IRBM complexes in the western USSR, two missiles and a considerable amount of MRBM and IRBM support equipment have been identified on high-resolution photography since [redacted].

It is possible that this facility is a depot and repair center for equipment for the three IRBM launch complexes with seven launch sites and the three MRBM launch complexes with seven launch sites in the Caucasus Mountains and the south-central USSR.

The multiple-fenced storage area contains at least 66 large buildings, of which 56 are probably storage buildings. Of these, ten are probably for vehicle storage and two are probably for missile storage or assembly. Two large high-bay buildings appear to be for the maintenance and repair of large vehicles. Two transshipment buildings, each with a gantry crane extending over one rail spur, are situated on the main rail spur just inside the storage area. At the north end of the rail spur is a separately secured area containing three buildings, two of which are surrounded by blast walls.

A number of changes have occurred in the storage and maintenance area since [redacted] six large low-pitched gable-roofed buildings have been constructed at the southwest end of the rail trench. A new rail spur entering the south perimeter of the storage area was observed in [redacted].

The main rail line enters the southeast corner of the storage area and separates into four tracks, two of which are spanned by gantry cranes extending from the two transshipment buildings. A spur branches from the main line just inside the storage area and extends northeast to serve three widely separated, side-loading, reveted storage buildings and an open storage area. The main rail spur intersects a two-track rail trench, and a bridge crane is at the intersection to transfer material destined for the rail-in storage buildings along the rail trench.

[redacted] A considerable amount of support equipment for the SS-3, SS-4, and SS-5 systems has been observed at this facility on high-resolution photography since [redacted]. At least 60 SS-2 missile transporters observed in [redacted] were not present in [redacted]. Between [redacted] and [redacted] at least 40 SS-3, SS-4, and SS-5 missile transporters were removed from the open storage areas.

Changes in the housing and support area since [redacted] indicate an increase in personnel at the facility: [redacted]

[redacted] The completion of this structure will bring the number of family housing units present to approximately 400. Between [redacted] and [redacted] seven POI tanks were installed in the vicinity of the heatplant and a new wing and stack were added to the heatplant.

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[redacted]

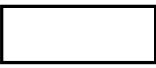
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RCA-01/0038/69 25X1**Toropets Missile Support Facility**

25X1 The Toropets Missile Support Facility (Figure 9) is 8.2 nm south of Toropets, on the Toropets-Staraya Toropa rail line and highway. Military installations near the facility include a SAM support facility, 2.5 nm to the north; the Toropets Ammunition Depot, 9 nm to the north; and four SAM sites within 15 nm of the facility.

25X1 Between [] and [] several new buildings were observed in the storage area. The presence of MRBM, IRBM, or ICBM support equipment has not been confirmed at this facility and there appears to be less activity than at the other facilities. However, the layout, type of buildings, and apparent mode of operation at Toropets indicate that it probably performs the same type of function as the other seven facilities. In [] canvas-covered [] tapered objects were observed at the front and rear entrances to a large high-bay building (item 18) in the storage and maintenance area. In addition, in [] seven unidentified [] long linear tapered objects were seen on the main loading dock, north of one of the transshipment buildings (item 21). []

The multiple-fenced storage and maintenance area contains 82 large buildings, of which 42 appear to be for storage and 20 appear to be for vehicle maintenance and storage. Ten of the storage buildings (item 24) have narrow-gauge tracks extending approximately 30 feet from the building entrances. A narrow-gauge rail line, serving a high-bay building in the northeast part of the storage area, joins the main rail line which passes between the rail-in storage buildings and terminates just short of the loading dock at the northwest end of the trench.

The rail system at this facility is similar to that at Berdichev. The main rail line forms a loop, so that rail cars can go directly into the rail trench and no bridge crane is needed. At one end of the rail trench are two separately secured, revetted storage buildings, such as are observed at five other support facilities.

Two transshipment buildings, each with a gantry crane spanning the rail spur, are in the eastern part of the storage area. A rail spur branching from the main line in the western corner of the storage area serves three widely spaced, side-loading revetted storage buildings. A considerable number of rail cars have been observed consistently on this siding. At right angles to the main rail line are eight lengths of standard-gauge track

25X1 In the housing and support area, some individual housing units were probably taken over from the local civilian population for military use when the facility was in an early stage of construction. An estimated 158 apartment-type family units have been identified at the facility. Only minor changes have been observed in the housing and support area since [].

Data on Structures in the Toropets Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Storage and Maintenance Area					
1	Security bldg		15	Warehouse	
2	Revetted bldg		a		
3	Revetted bldg		b		
4	Revetted stor bldg (2)		c		
5	Stor bldg (27)		16	Vehicle stor bldg (2)	
6	Bldg		17	Vehicle maint bldg	
7	Maint & assembly bldg		18	Maint & assembly bldg	
8	Stor bldg		a		
a			b		
b			19	Warehouse	
9	Vehicle stor bldg		20	Warehouse	
10	Vehicle stor bldg (8)		21	Transloading bldg	
11	Vehicle stor bldg (2)		22	Warehouse (10)	
12	Stor bldg		23	Transloading bldg	
a			24	Vehicle stor bldg (10)	
b	(4)		25	Security bldg	
13	Stor bldg		26	Stor bldg	
14	Stor bldg		27	Bldg	
			28	Revetted stor bldg (3)	

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Data on Structures in the Toropets Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	Railroad shed		27	Water tower	
2	Bldg		28	Bldg	
3	Heatplant		29	Bldg	
a			30	Messhall	
b			a		
c			b		
4	Bldg		31	Vehicle stor bldg	
5	Stor bldg		32	Poss 2-story barracks	
6	Bldg		33	Sheds (2)	
7	Admin bldg		34	Bldg	
8	Sentry dog kennels		35	Recreation facility	
9	Bldg		a		
10	Prob security bldg		b		
11	Fire station		36	Bldg	
a			37	Bldg	
b	(2)		38	Poss kindergarten & nursery school	
12	Warehouse		39	nursery school	
13	Poss kiln		40	Poss store	
14	Sawmill		a		
15	Warehouse		b		
16	Shed		c		
17	Bldg		d		
18	Bldg		41	Bldg	
19	Bldg		42	2-story apartment bldg	
20	Bldg		43	Bldg	
21	Maint bldg		44	2-story apartment bldg (5)	
22	Admin bldg		45	2-story bldg	
23	Maint bldg		46	Stor shed	
a			47	Stor shed	
b			48	2-story apartment bldg	
24	Temporary barracks		49	Soccer field	
25	2-story admin bldg		50	Security shed	
26	Bldg				

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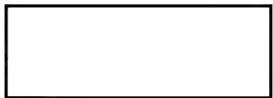
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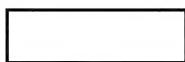
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18 September 1969

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MEMORANDUM FOR: Recipients of [redacted] RCA-01/0038/69

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SUBJECT: Balta MRBM, Berdichev IRBM, Bobrovskiy ICBM/IRBM/MRBM,
Glazov ICBM/IRBM/MRBM, Novaya Mezinovka IRBM, Surovatikha
ICBM/IRBM/MRBM, and Tambov IRBM Rear Depots and Toropets
Missile Support Facility (USSR)
Basic Imagery Interpretation Report
Dated August 1969

Please substitute the attached pages 15 and 16 for the original
pages 15 and 16 disseminated with the referenced report. Certain item
numbers were inadvertently omitted from Figure 7.

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